

## EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators

Between 01/01/2019 and 28/02/2019

Country	Measles case finding report							Rubella case finding report							Measles incidence/100,000 *	Rubella incidence/100,000 **	Reporting rate ***	Indicators: target ≥80%					Last date reported	Genotypes reorted
	Total suspected cases for M/R	Specimens tested for Measles	Measles lab confirmed	Measles Epi-Linked	Measles clinically compatible	Total Measles	Measles discarded cases	Specimens tested for Rubella	Rubella lab confirmed	Rubella Epi-Linked	Rubella clinically compatible	Total Rubella	Rubella discarded	suspects tested for Measles ****				cases with complete investigation	specimens received at the lab within 5 days	specimens with adequate condition	results reported back within 4 days			
Afghanistan	99	99	45	0	0	45	46	54	8	0	0	8	46	1.39	0.25	0.14	100%	0%	33%	90%	97%	28/02/2019		
Bahrain	71	71	0	0	0	0	68	71	0	0	0	0	71	0.00	0.00	4.73	100%	100%	100%	100%	100%	27/02/2019		
<b>Djibouti</b>																								
Iran	792	767	3	0	0	3	762	767	2	0	1	3	764	0.04	0.04	0.98	97%	96%	95%	100%	98%	28/02/2019		
Iraq	192	180	115	0	0	115	77	185	0	0	0	0	185	3.10	0.00	0.21	94%	68%	66%	100%	78%	24/02/2019	D8, B3	
Jordan	10	10	0	0	0	0	9	10	0	0	0	0	10	0.00	0.00	0.10	100%	100%	43%	100%	40%	25/02/2019		
Egypt	440	407	0	29	0	29	383	406	0	0	0	0	406	0.30	0.00	0.43	99%	90%	100%	100%	86%	28/02/2019		
Kuwait	11	10	3	0	0	3	8	10	0	0	0	0	10	0.72	0.00	0.19	91%	100%	100%	100%	10%	27/02/2019		
Lebanon	321	239	212	2	80	294	27	0	0	0	0	0	0	51.21	0.00	0.47	75%	56%	5%	100%	34%	28/02/2019		
Libya	38	37	16	0	0	16	22	37	4	0	0	4	33	2.30	0.57	0.26	97%	92%	24%	100%	84%	23/02/2019		
Morocco	48	48	0	0	0	0	46	46	2	0	0	2	44	0.00	0.06	0.13	100%	98%	85%	100%	68%	28/02/2019		
Oman	164	159	0	0	0	0	157	156	0	0	0	0	156	0.00	0.00	3.60	97%	93%	92%	100%	88%	17/02/2019		
Pakistan	755	431	156	57	225	438	254	253	47	0	0	47	206	2.05	0.22	0.13	62%	54%	12%	100%	60%	25/02/2019	B3	
Palestine	17	17	1	0	0	1	16	16	0	0	0	0	16	0.21	0.00	0.34	100%	94%	94%	100%	94%	25/02/2019		
<b>Qatar</b>																								
Saudi Arabia	1058	1058	654	0	0	654	398	1057	6	0	0	6	1051	20.09	0.18	1.22	100%	100%	99%	100%	89%	28/02/2019		
<b>Somalia ★</b>	806	6	6	0	800	806	0	0	0	0	0	0	0	57.95	0.00	0.00	1%	1%	100%	100%	100%	28/02/2019		
Sudan	1344	538	332	431	0	763	82	203	5	0	0	5	198	16.43	0.11	1.24	59%	99%	80%	97%	54%	28/02/2019		
Syria	119	119	4	0	0	4	109	118	1	0	0	1	117	0.16	0.04	0.47	100%	99%	64%	100%	94%	28/02/2019		
Tunisia	724	724	408	0	0	408	301	724	10	0	0	10	714	35.65	0.87	2.67	100%	91%	86%	100%	73%	28/02/2019		
UAE	66	62	16	3	2	21	34	55	11	0	0	11	44	2.30	1.21	0.37	98%	100%	97%	98%	81%	25/02/2019	D8, B3	
Yemen	3153	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	11.50	0%	85%	45%	100%	0%	28/02/2019		
<b>Total</b>	<b>10228</b>	<b>4982</b>	<b>1971</b>	<b>522</b>	<b>1107</b>	<b>3600</b>	<b>2799</b>	<b>4168</b>	<b>96</b>	<b>0</b>	<b>1</b>	<b>97</b>	<b>4071</b>	<b>5.33</b>	<b>0.14</b>	<b>0.95</b>	<b>52%</b>	<b>86%</b>	<b>71%</b>	<b>98%</b>	<b>74%</b>			

\*The sum of the measles lab confirmed cases +measles epi-linked cases + measles clinically compatible cases/million population  
 \*\*The sum of the rubella lab confirmed cases +rubella epi-linked cases + rubella clinically compatible cases/million population  
 \*\*\*Reporting rate of discarded non-measles non-rubella cases at the national level per 100,000 total population  
 \*\*\*\*Excluding measles and rubella epi-linked cases

Green cells= indicator met.  
 Yellow cells=indicator not met.  
 Red cells=missing data for calculating indicator.

Adequate investigation includes the following data elements:  
 -District. -Age. -Gender.  
 -Date of rash onset, case notification and investigation  
 -Vaccination status. -Date of last vaccination with MCV  
 -Date specimen collected.  
 -Travel history

Countries that did not report

★ Somalia reported aggregate data

## Measles final classification and distribution by Month

Between 01/01/2019 and 28/02/2019

Country	Total Suspected cases for measles	Total specimens tested	Imported Measles cases	Measles import related	Unknown source	Vaccine related	Measles Lab confirmed	Measles Epi-Linked	Measles clinically compatible	Total Measles	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	99	99	0	0	0	0	45	0	0	45	18	27	0	0	0	0	0	0	0	0	0	0
Bahrain	71	71	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Djibouti</b>																						
Iran	792	767	1	0	2	17	3	0	0	3	1	2	0	0	0	0	0	0	0	0	0	0
Iraq	192	180	0	0	0	0	115	0	0	115	58	57	0	0	0	0	0	0	0	0	0	0
Jordan	10	10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	440	407	0	27	0	0	0	29	0	29	4	25	0	0	0	0	0	0	0	0	0	0
Kuwait	11	10	0	0	0	0	3	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0
Lebanon	321	239	0	0	0	0	212	2	80	294	127	167	0	0	0	0	0	0	0	0	0	0
Libya	38	37	0	0	0	0	16	0	0	16	14	2	0	0	0	0	0	0	0	0	0	0
Morocco	48	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oman	164	159	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	755	431	0	0	0	0	156	57	225	438	258	180	0	0	0	0	0	0	0	0	0	0
Palestine	17	17	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
<b>Qatar</b>																						
Saudi Arabia	1058	1058	0	0	0	0	654	0	0	654	266	388	0	0	0	0	0	0	0	0	0	0
Somalia	806	6	0	0	0	0	6	0	800	806	482	324	0	0	0	0	0	0	0	0	0	0
Sudan	1344	538	0	0	0	0	332	431	0	763	461	302	0	0	0	0	0	0	0	0	0	0
Syria	119	119	0	0	0	1	4	0	0	4	2	2	0	0	0	0	0	0	0	0	0	0
Tunisia	724	724	5	0	0	0	408	0	0	408	82	326	0	0	0	0	0	0	0	0	0	0
UAE	66	62	0	0	0	0	16	3	2	21	10	11	0	0	0	0	0	0	0	0	0	0
Yemen	3153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>10228</b>	<b>4982</b>	<b>9</b>	<b>27</b>	<b>2</b>	<b>26</b>	<b>1971</b>	<b>522</b>	<b>1107</b>	<b>3600</b>	<b>1783</b>	<b>1817</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

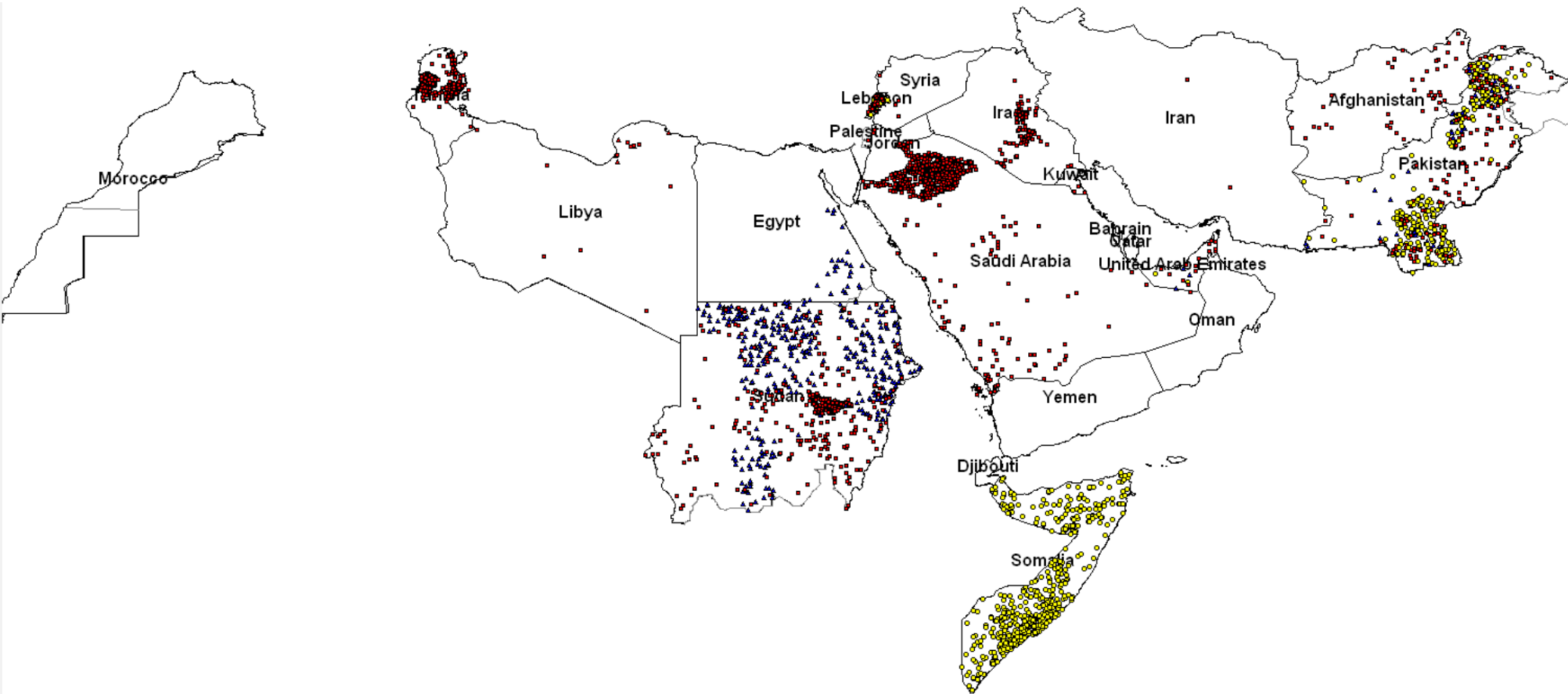
\* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)




\*\* Importation related measles/rubella case – a locally acquired infection occurring as part of a chain of transmission originating from an imported case as supported by epidemiological or virological evidence

\*\*\*Vaccine related case – a suspect case that has a rash like illness without respiratory symptoms and the rash had onset 7-14 days following vaccination and the lab detected IgM in the blood specimen that was collected 8-56 days after vaccination and there were no secondary cases identified. OR any suspect case from which virus is isolated and genotyping test reveals the virus to be a vaccine strain

# Total confirmed cases; include all cases confirmed by laboratory testing or epi linkage, plus those clinical cases that were reported without a laboratory specimen or epi linkage

# Cumulative geographic distribution of Measles cases in the EMR countries February 2019



 Measles Lab confirmed	<b>N=1971</b>
 Measles Epi Linked	<b>N=522</b>
 Measles Clinically compatible	<b>N=1107</b>

## Rubella final classification and distribution by Month

Between 01/01/2019 and 28/02/2019

Country	Total Suspected cases for Rubella	Total specimens tested	Imported Rubella cases	Rubella import related	Unknown source	Vaccine related	Rubella Lab confirmed	Rubella Epi-Linked	Rubella clinically compatible	Total Rubella	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	99	54	0	0	0	0	8	0	0	8	7	1	0	0	0	0	0	0	0	0	0	0
Bahrain	71	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Djibouti</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Iran	792	767	0	0	0	6	2	0	1	3	0	3	0	0	0	0	0	0	0	0	0	0
Iraq	192	185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jordan	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	440	406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kuwait	11	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lebanon	321	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Libya	38	37	0	0	0	0	4	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0
Morocco	48	46	0	0	0	0	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0
Oman	164	156	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	755	253	0	0	0	0	47	0	0	47	25	22	0	0	0	0	0	0	0	0	0	0
Palestine	17	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Qatar</b>																						
Saudi Arabia	1058	1057	0	0	0	0	6	0	0	6	3	3	0	0	0	0	0	0	0	0	0	0
Somalia	806	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	1344	203	0	0	0	0	5	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0
Syria	119	118	0	0	0	4	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
Tunisia	724	724	0	0	0	0	10	0	0	10	4	6	0	0	0	0	0	0	0	0	0	0
UAE	66	55	0	0	0	0	11	0	0	11	5	6	0	0	0	0	0	0	0	0	0	0
Yemen	3153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>10228</b>	<b>4168</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>96</b>	<b>0</b>	<b>1</b>	<b>97</b>	<b>53</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

\* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)




\*\* Importation related measles/rubella case – a locally acquired infection occurring as part of a chain of transmission originating from an imported case as supported by epidemiological or virological evidence

\*\*\*Vaccine related case – a suspect case that has a rash like illness without respiratory symptoms and the rash had onset 7-14 days following vaccination and the lab detected IgM in the blood specimen that was collected 8-56 days after vaccination and there were no secondary cases identified. OR any suspect case from which virus is isolated and genotyping test reveals the virus to be a vaccine strain

# Total confirmed cases; include all cases confirmed by laboratory testing or epi linkage, plus those clinical cases that were reported without a laboratory specimen or epi linkage

# Cumulative geographic distribution of Rubella cases in the EMR countries February 2019



	Rubella Lab confirmed	<b>N=96</b>
	Rubella Epi Linked	<b>N=0</b>
	Rubella clinically compatible	<b>N=1</b>

# Measles and Rubella laboratory summary report

Between 01/01/2019 and 28/02/2019

Country	Measles								Rubella								Reported to EPI within 4days
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%	
Afghanistan	99	100%	45	45%	54	55%	0	0%	54	55%	8	15%	46	85%	0	0%	97%
Bahrain	71	100%	4	6%	67	94%	0	0%	71	100%	1	1%	70	99%	0	0%	100%
Iran	767	97%	23	3%	744	97%	0	0%	767	97%	8	1%	759	99%	0	0%	98%
Iraq	180	94%	115	64%	65	36%	0	0%	185	96%	0	0%	185	100%	0	0%	78%
Jordan	10	100%	1	10%	9	90%	0	0%	10	100%	0	0%	10	100%	0	0%	40%
Egypt	407	93%	27	7%	379	93%	1	0%	406	92%	5	1%	399	98%	2	0%	86%
Kuwait	10	91%	3	30%	7	70%	0	0%	10	91%	0	0%	10	100%	0	0%	10%
Lebanon	239	74%	212	89%	27	11%	0	0%	0	0%	0	#Num!	0	#Num!	0	#Num!	34%
Libya	37	97%	16	43%	14	38%	7	19%	37	97%	4	11%	30	81%	3	8%	84%
Morocco	48	100%	0	0%	47	98%	1	2%	46	96%	2	4%	42	91%	2	4%	68%
Oman	159	97%	8	5%	149	94%	2	1%	156	95%	4	3%	152	97%	0	0%	88%
Pakistan	431	57%	156	36%	275	64%	0	0%	253	34%	49	19%	204	81%	0	0%	60%
Palestine	17	100%	1	6%	16	94%	0	0%	16	94%	0	0%	16	100%	0	0%	94%
Saudi Arabia	1058	100%	654	62%	404	38%	0	0%	1057	100%	11	1%	1046	99%	0	0%	89%
Somalia	6	100%	6	100%	0	0%	0	0%	0	0%	0	#Num!	0	#Num!	0	#Num!	100%
Sudan	538	40%	332	62%	205	38%	1	0%	203	15%	7	3%	180	89%	16	8%	54%
Syria	119	100%	4	3%	113	95%	2	2%	118	99%	4	3%	112	95%	2	2%	94%
Tunisia	724	100%	420	58%	291	40%	13	2%	724	100%	10	1%	714	99%	0	0%	73%
UAE	62	94%	16	26%	44	71%	2	3%	55	83%	11	20%	44	80%	0	0%	81%
Yemen	0	0%	0	#Num!	0	#Num!	0	#Num!	0	0%	0	#Num!	0	#Num!	0	#Num!	